Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

- 1. (Original) A water purification apparatus comprising:
 - a cathode compartment;
 - an anode compartment;
- at least one ion-depleting compartment, a portion of the at least one ion-depleting compartment positioned between the cathode compartment and the anode compartment; and wherein the cathode compartment is fluidly connected to the ion-depleting compartment.
- 2. (Original) The water purification apparatus of claim 1 further comprising at least one ion-concentrating compartment adjacent the at least one ion-depleting compartment, wherein the anode compartment is fluidly connected to the ion-concentrating compartment.
- 3. (Original) The water purification apparatus of claim 1 wherein the cathode compartment is in fluid communication with a purified fluid outlet.
- 4. (Original) The water purification apparatus of claim 3 wherein the purified fluid outlet is downstream of the cathode compartment.
- 5. (Original) The water purification apparatus of claim 1 wherein at least a portion of any water in the apparatus is grounded via a cathode.

- 6. (Original) A method of purifying a fluid comprising:

 passing a portion of a first fluid through an ion-depleting compartment of an electrochemical device to produce a second fluid; and passing at least a portion of the second fluid through a cathode compartment of the electrochemical device.
- 7. (Original) The method of claim 6 wherein all of the second fluid is passed through the cathode compartment.
- 8. (Original) The method of claim 6 further comprising dissolving hydrogen in the second fluid.
- 9. (Original) The method of claim 6 further comprising: passing a second portion of the first fluid through an ion-concentrating compartment of the electrochemical device; passing the second portion of the first fluid through an anode compartment of the electrochemical device; and reducing the LSI of the second portion of the first fluid.
- 10. (Original) The method of claim 9 wherein the LSI is reduced to less than about 0.
- 11. (Original) The method of claim 6 further comprising passing the second fluid to a point of use after it has flowed through the cathode compartment.
- 12. (Original) The method of claim 6 further comprising reducing the corrosiveness of the second fluid.
- 13. (Original) The method of claim 6 wherein greater than about 10% and less than about 90% of the hardness is removed from the second fluid.

- 14. (Original) The method of claim 13 wherein more than about 30% and less than about 70% of the hardness is removed from the second fluid.
- 15. (Original) The method of claim 13 wherein more than about 50% of the hardness is removed from the second fluid.
- 16. (Original) The method of claim 6 wherein the electrochemical device comprises an electrodeionization device.
- 17. (Original) The method of claim 6 wherein the electrochemical device comprises an electrodialysis device.
- 18. (Original) A method of purifying water comprising:

passing a first portion of a first water stream through a cathode compartment of a water purification apparatus to produce a second water stream; and

passing at least a portion of the second water stream through an ion-depleting compartment to produce purified water.

- 19. (Original) The method of claim 18 further comprising dissolving hydrogen in the second fluid.
- 20. (Original) The method of claim 18 further comprising:

passing a second portion of the first water stream through an ion-concentrating compartment of the water purification apparatus;

passing the second portion of the first water stream through an anode compartment of the water purification apparatus; and

reducing the LSI of the second portion of the first water stream.

- 21. (Original) The method of claim 18 further comprising delivering the second water stream to a point of use.
- 22. (Original) The method of claim 18 further comprising reducing the corrosiveness of the second water stream.
- 23. (Original) The method of claim 18 wherein greater than 10% and less than 90% of the hardness is removed from the second water stream.
- 24. (Original) The method of claim 23 wherein more than about 30% and less than about 70% of the hardness is removed from the second water stream.
- 25. (Original) The method of claim 23 wherein more than about 50% of the hardness is removed from the second water stream.
- 26. (Original) The method of claim 18 wherein the LSI is reduced to less than about 0.
- 27. (Original) The method of claim 18 wherein the water purification apparatus comprises an electrodeionization apparatus.
- 28. (Original) A method comprising:

passing a first portion of a first fluid through an ion-concentrating compartment of an electrochemical device to produce a second fluid;

passing a second portion of the first fluid through an ion-depleting compartment of the electrochemical device to produce a third fluid;

reducing the pH of the second fluid; and reducing the corrosiveness of the third fluid.

- 29. (Original) The method of claim 28 wherein the corrosiveness of the third fluid is reduced by adding hydrogen gas to the fluid.
- 30. (Original) The method of claim 28 wherein the concentration of any oxidative species in the third fluid is reduced in the cathode compartment.
- 31. (Original) The method of claim 28 further comprising passing the third fluid to a domestic point of use.
- 32. (Original) The method of claim 28 further comprising recirculating the third fluid through the ion-depleting compartment.